



# CONTENT







**ERA**SYSTEM

Driven Roller Conveyor Angetriebene Rollenbahn Transporteur à Rouleaux Entraîne Transportador de rodillos motorizado





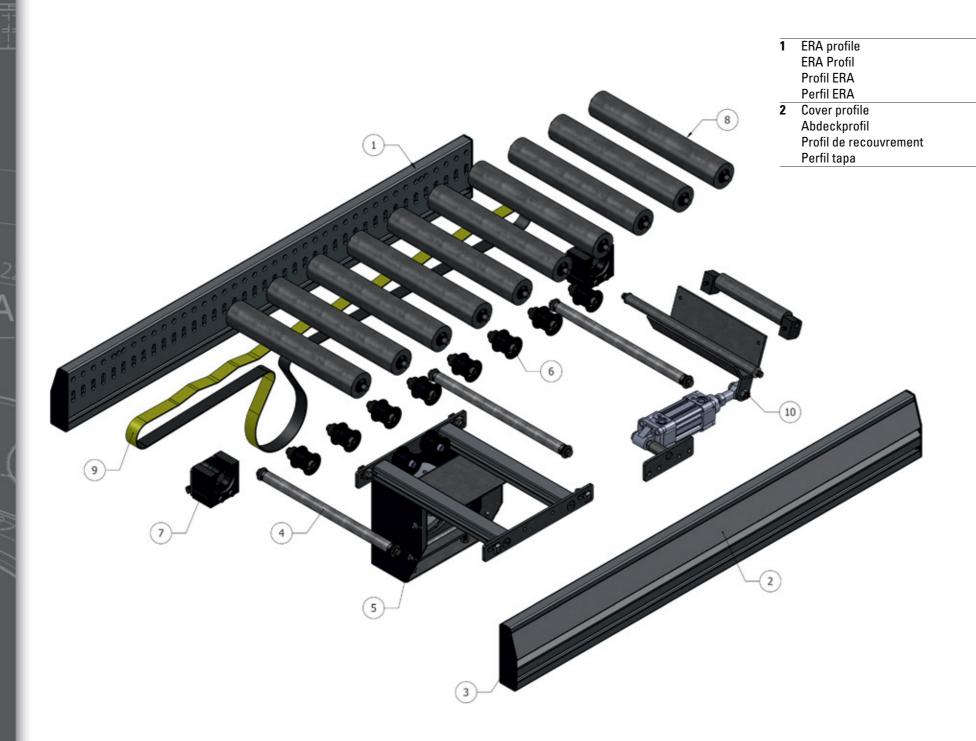
# **ERA 50**



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Module page 396





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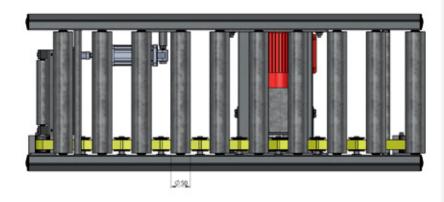


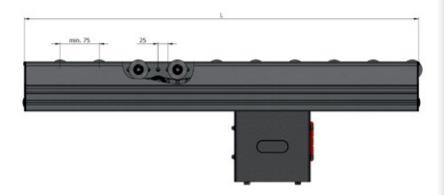










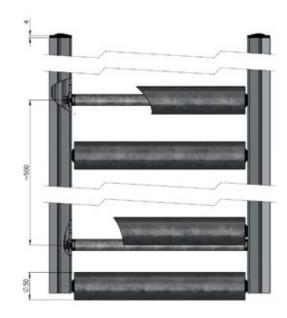


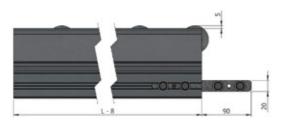
ERA 50	Dimens	ions - Abm	essungen	- Dimensions - Din	nensiones		
L=	450 - 20	.000 mm					
	17,72" -	787,40" ind	ch				
FW =	420	520	620 mm	1			
	16,50"	20,47"	24,40" i	nch			
<b>V</b> ≈	Max. 90	mtr./min	295 Foo	nt/min	Without accumulation module		
<b>0</b> ≈	Max. 50	) kg	110 Pou	ınds	Higher on request		
Drive pulley	Ø125 m	m	4.92" in	ch	See module page 398		
Return pulley	Ø50 mm	1	1,97" in	ch	See module page 402		
Tensioner pulley	Ø33 mm	1	1,30" in	ch	See module page 402		
Roller pitch	75	100	125	150 mm			
	2,95"	3,93"	4,92"	5,90" inch			
	after 15	0 mm, 5,90°	inch				
Roller diameter	50 mm		1,97" in	ch			
Support legs, Stützen,	Supports, Pat	as de apoy	/0		See module page 408-410		
Side guiding, Seitenfü	ihrungen, Guid	dage latéra	I, Guiado I	lateral	See module page 410		

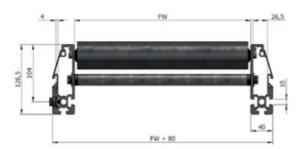












Dimensions - Abmessungen - Dimensions - Dimensiones					
FW =	420	520	620 mm		
	16,50"	20,47"	24,40" inch		

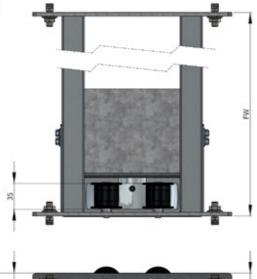


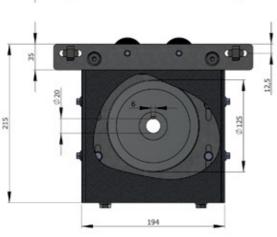


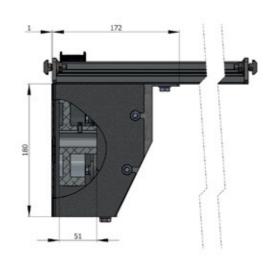
Art Nr. Pos 1	Material	
ERA040403010000	AL	Ë 1 piece, L=5,6 mt
Art Nr. Pos 2	Material	
ERA040403020000	AL	🛱 1 piece, L=5,6 mt
Art Nr. Pos 3		
ERA040403050420	ERA CONNECTOR Ø20x1,5; 420	🛎 10 pieces, with fasteners
ERA040403050520	ERA CONNECTOR Ø20x1,5; 520	🛎 10 pieces, with fasteners
ERA040403050620	ERA CONNECTOR Ø20x1,5; 620	🗂 10 pieces, with fasteners
Material	Stainless steel, Edelstahl, Acier inoxydab	ole, Acero inoxidable; PA
Art Nr. Pos 4		
ERA040404020420	ERA 50 ST. ROLLER 420	🖺 1 piece
ERA040404020520	ERA 50 ST. ROLLER 520	🖺 1 piece
ERA040404020620	ERA 50 ST. ROLLER 620	🖺 1 piece
Material	Steel zinc plated, Stahl verzinkt, Acero ga	alvanizado, En acier zinqué
Art Nr. Pos 5	Material	
ERA040403030000	PA Black	
	Material	
Art Nr. Pos 6	0	🛱 2 pieces, with fasteners
Art Nr. Pos 6 EMPT040705000006	Steel galvanized, Stahl verzinkt,	Z picco, with hastories









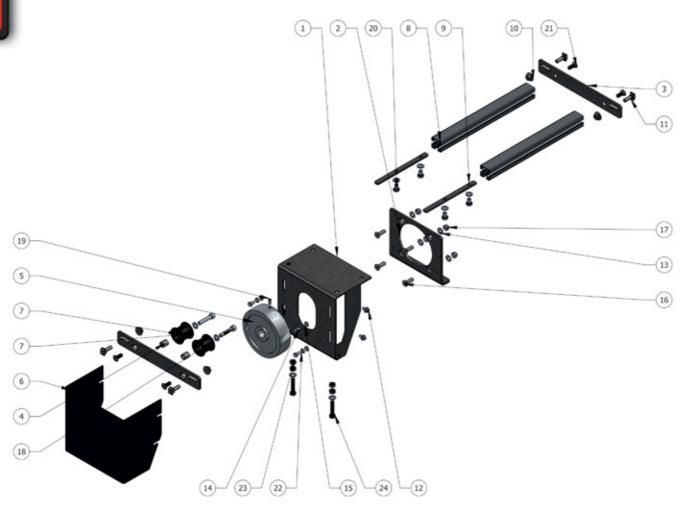


Dimensions - Abmessungen - Dimensions - Dimensiones					
FW =	420	520	620 mm		
	16,50"	20,47"	24,40" inch		
Outside dimension	FW + 80 MM   + 3,15" inch				
Possible drives	SEW-RF07; Varvel-FRD02/FRD12				
Package	1 drive, Antrieb, Conduire, Conducir				

ERA 50 drive unit	FW
ERA040401010420	420
ERA040401010520	520
ERA040401010620	620







1	Motor support plate
2	Motor plate
3	Mounting strip drive unit

- Mounting strip drive unit Tentioner spacer; type 2
- Drive wheel
- Drive cover cap
- Tentioner roller
- Drive unit connector
- 9 Connector mounting strip 10 Flange nut M8
- **11** T-Bolt M8x25
- 12 Hexagon bolt with flange M6x12

- 13 Plain washer M8 DIN125A
  14 Hexagon head bolt M6x12 DIN933
  15 Plain washer M6 DIN125A
  16 Hexagon socket countersunk head screw
  17 Prevailing torque hexagon nut
  18 Hexagon socket head cap
  19 Hexagon socket set screw
  20 Hexagon head bolt
  21 Hexagon socket countersunk head screw
  22 Spring lock washer
  23 Hexagon nut M8 DIN934
  24 Hexagon head bolt M8x40 DIN933

## **Dimensions - Abmessungen - Dimensions - Dimensiones**

Art Nr. Pos 1	Art Nr. Pos 2	Art Nr. Pos 3	Art Nr. Pos 4	
040402000001	040402000000	040402000002	040403020001	₫1
Material	Steel galvanized, Stahl verzinkt, Acier galvanisé, Acero galvanizado			

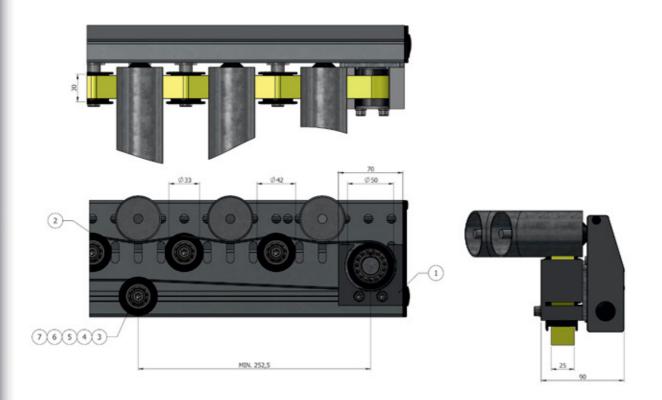
Art Nr. Pos 5	Art Nr. Pos 6	
040404000005	04040400006	≝1
Material	AL	

		easy conveyors

Art Nr. Pos 7			Material	
040408000001	With 2x bearing 63	38 2Z	PA; Bearing, Steel	当1
Art Nr. Pos 8			Material	
040401010420	ERA DRIVE UNIT (	CONNECTOR: 420	Material	₫1
				<u> </u>
040401010520	ERA DRIVE UNIT (		AL	<u> </u>
040401010620	ERA DRIVE UNIT (	JUNNECTUK; 620	AL	
Art Nr. Pos 9			Material	
040402000004		Steel g	jalvanized, Stahl verzinkt,	≝1
		Acier galv	anisé, Acero galvanizado	
Art Nr. Pos 10	Art Nr. Pos 11	Art Nr. Pos 12	Material	
040115000004	040115000003	BV692106012VZ	Steel galvanized	∄ 100
<u> </u>	040115000003	D V 092100012VZ	Steer garvanized	<u> </u>
Art Nr. Pos 13	Art Nr. Pos 14	Art Nr. Pos 15	Material	
BV125A08000VZ	BV093306012VZ	BV125A06000VZ	Steel galvanized	∄ 100
Art Nr. Pos 16			Material	
	M0-25 DIN 7001			₫ 100
BV799108025VZ	M8x25 DIN7991		Steel galvanized	<b>⊞ 100</b>
Art Nr. Pos 17			Material	
BV098508000A2	M8 DIN985	;	Stainless steel, Edelstahl,	100
		Acier inox	ydable, Acero inoxidable	
Art Nr. Pos 18			Material	
BV091208040VZ	M8x40 DIN912			₫ 100
D V U 3 1 2 U 0 U 4 U V Z	IVIOX40 DINS12		Steel galvanized	□ 100
Art Nr. Pos 19			Material	
BV091606014A2	M6x14 DIN916		Stainless steel	100
Art Nr. Pos 20			Material	
BV093308012A2	M8x12 DIN933		Stainless steel	∄ 100
D V 0 0 0 0 0 0 1 2 A 2	WOX12 DINOGO		Ottaliilo33 Stoci	<u> </u>
Art Nr. Pos 21			Material	
BV799108020VZ	M8x20 DIN7991		Steel galvanized	∄ 100
Art Nr. Pos 22			Material	
BV127B06000VZ	M6 DIN127B		Steel galvanized	∄ 100
5 1 121 500000 12	WO DINTELL		Otool galvanizoa	100
Art Nr. Pos 23	Art Nr. Pos 24		Material	
	BV093308040A2		Stainless steel	<b>#</b> 100

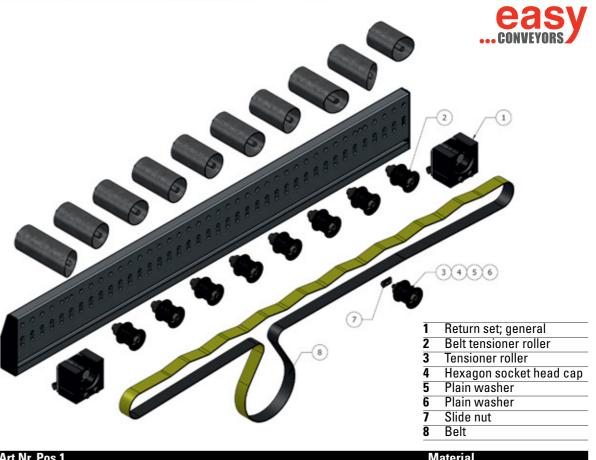






Others on request, Andere auf Anfrage, Autres sur demande, Otros sobre consulta





Art Nr. Pos 1	Material	
ERA040402010000	Steel galvanized, Stahl verzinkt,	1
	Acier galvanisé, Acero galvanizado, POM, PA	

Art Nr. Pos 2	Material
ERA040403040002	Galvanized Steel, POM, PA 💆 1

Art Nr. Pos 3	Material	
040408000001	PA; BEARING 638 2Z	1

Art Nr. Pos 4	Material	
BV091208050VZ	Galvanized steel	100

Art Nr. Pos 5		Material	
BV125A08000VZ	M8	Galvanized steel	<b>1</b> 100

Art Nr. Pos 6		Material	
BV902108000A2	3xD DIN9021 A2 M8	Galvanized steel	∄ 100

Art Nr. Pos 7		Material	
040115000002	M8 - 10	Galvanized steel	100

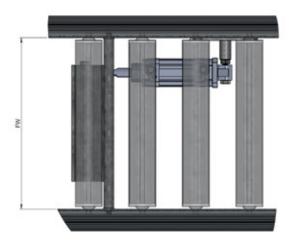
Art Nr. Pos 8	Material	
ERA040403040000	PA Rubberized	₫1

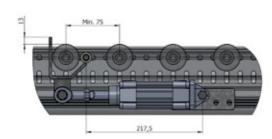
Others on request, Andere auf Anfrage, Autres sur demande, Otros sobre consulta









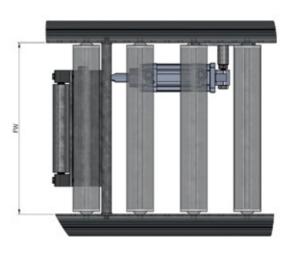


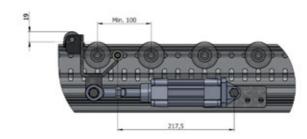
<b>ERA 50 STOPPER</b>	Dimensi	ons - Abmo	essungen - Dimensions - Dimensiones
FW =	420	520	620 mm
	16,50"	20,47"	24,40" inch
Material Bracket/Fixings	Steel ga	vanized, S	tahl verzinkt, Acier galvanisé, Acero galvanizado
Package	Incl. fast	eners, mou	nting brackets, connectors & valves , Inkl. Befestigungen, Halterun-
	gen, Ans	chlüsse un	d Ventile, Incl. attaches, supports, raccords et soupapes, Incl. ele-
	mentos d	e fijación, a	abrazaderas, conectores y válvulas
Pneumatic cylinder	ISO VDN	1A Cylinde	r CEDMA
Pneumatic valve	5/2 G1/8'	, electric 2	24VDC 48AC
Photoelectric reflector	Telemec	anique XU	ZC24
Photoelectric Sensor	Telemec	anique XU	K-9ARCNL2 20-264 VAC/DC
Tube	5 Mtr PU	-25 8x5,5 E	Blue
Max. static load [F]	1400 N		

ERA 50 PNEUMATIC STOPPER	FW	
ERA040406000420	420	ERA PNEUMATIC STOPPER SET; 420
ERA040406000520	520	ERA PNEUMATIC STOPPER SET; 520
ERA040406000620	620	ERA PNEUMATIC STOPPER SET; 620

Others on request, Andere auf Anfrage, Autres sur demande, Otros sobre consulta







More technical information: See engineering online www.easy-conveyors.com

ERA 50 STOPPER	Dimensi	ons - Abmo	essungen - Dimensions - Dimensiones
FW =	420	520	620 mm
	16,50"	20,47"	24,40" inch
Material Bracket/Fixings	Steel gal	vanized, S	tahl verzinkt, Acier galvanisé, Acero galvanizado
Package	Incl. fast	eners, mou	nting brackets, connectors & valves , Inkl. Befestigungen, Halterun-
	gen, Ans	chlüsse un	d Ventile, Incl. attaches, supports, raccords et soupapes, Incl. ele-
	mentos d	e fijación, a	abrazaderas, conectores y válvulas
Pneumatic cylinder	ISO VDN	IA Cylinde	r CEDMA
Pneumatic valve	5/2 G1/8'	, electric 2	24VDC 48AC
Photoelectric reflector	Telemec	anique XU	ZC24
Photoelectric Sensor	Telemec	anique XU	K-9ARCNL2 20-264 VAC/DC
Tube	5 Mtr PU	-25 8x5,5 E	Blue
Max. static load [F]	1400 N		

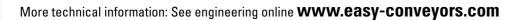
<b>ERA 50 PNEUMATIC STOPPER</b>	FW	
ERA040406010420	420	ERA PNEUMATIC STOPPER SET; 420
ERA040406010520	520	ERA PNEUMATIC STOPPER SET; 520
ERA040406010620	620	ERA PNEUMATIC STOPPER SET; 620











<b>ERA50 ROLLER</b>	Dimensi	ons - Abm	essungen - Dimensions - Din
FW =	420	520	620 mm
	16,50"	20,47"	24,40" inch
Bearing type	Thermop	olastic synt	thetic material - Bearing Site
Type of bearing	Ball Bea	rings (Seri	es 6202 ZZ) re DIN 625
Load Capacity/Roller	1.600N (	depending	upon the load limit of tube ar
Max. Speed	2 m/s		
Range of Temperature	-5 to +50	°C	
Roller	Ø50 x 1.5	5	
Shaft	Ø10		
Shaft Ends	Spring lo	aded, Fed	erbelastet, à Ressort, Resort

ERA ROLLER	FW	
ERA040404020420	420	ERA 50 ST. ROLLER 420
ERA040404020520	520	ERA 50 ST. ROLLER 520
ERA040404020620	620	ERA 50 ST. ROLLER 620
Material	Zinc plated	steel, Stahl verzinkt, En acier zingué, Acero galvanizado

Others on request, Andere auf Anfrage, Autres sur demande, Otros sobre consulta





More technical information: See engineering online  ${\color{blue} www.easy-conveyors.com}$ 

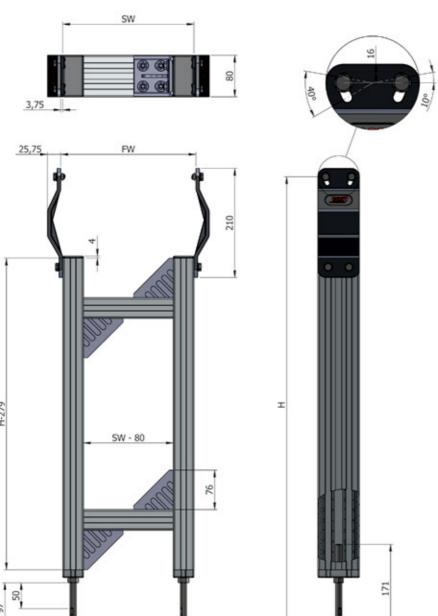
<b>ERA 50 ROLLER STOPPER</b>	Dimensi	ons - Abm	essungen - Dimensions - Dimensiones	
FW =	270	370	470 mm	
	10,63"	14,57"	18,50" inch	
Bearing type	Steel - B	earing Site	e	
Type of bearing	Ball Row	Ball Row		
Load Capacity/Roller	1.600N (depending upon the load limit of tube and shaft)			
Max. Speed	0,6 m/s			
Range of Temperature	-5 to +80 °C			
Roller	Ø30 x 1.5			
Shaft	Ø10			
Shaft Ends	Spring lo	aded, Fed	erbelastet, à Ressort, Resorte	

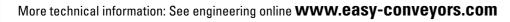
<b>ERA 50 ROLLER STOPPER</b>	FW	
ERA0404040420	420	ERA 30 ST. ROLLER 420
ERA0404040520	520	ERA 30 ST. ROLLER 520
ERA0404040620	620	ERA 30 ST. ROLLER 620
Material	Zinc plated steel, Stahl verzinkt, En acier zinqué, Acero galvanizado	





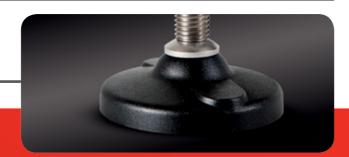






	Dimensions - Abmessungen - Dimensions - Dimensiones		
FW =			
SW Min =	156 mm	6,14" inch	
H Max =	1200 mm	47,25" inch	
Always fasten to the floor, Immer am Boden befestigen			
Siempre sujete al suelo, Toujour attacher à l'étage			

Others on request, Andere auf Anfrage, Autres sur demande, Otros sobre consulta





**SPARE PARTS** 

- 1 I support bracket
  2 Profile 40x80L
  3 Profile 40x80L
  4 Foot plate 40x80L
  5 Hinged feet Ø80
  6 Hexagon nut
  7 Bracket 80
  8 Cap 40x80

Art Nr. Pos 1	Material	
ETS040808030000   I support bracket	PA FG	🗂 1 set of 2 pieces, incl. fasteners

Art Nr. Pos 2 + 3	Material	
020102070008   Profile 40x80L, L= 6070 mm	AL	1

Art Nr. Pos 4	Material	
020102150000   Foot plate 40x80L	AL	🛱 1 piece, incl. fasteners

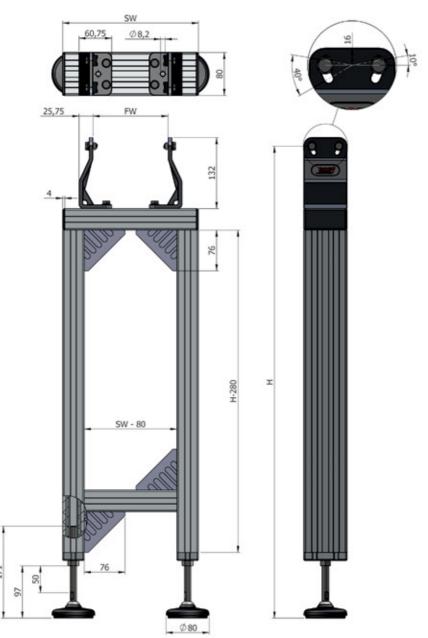
AIT MI. PUS 3	Malenai	
040707020003   Hinged feet Ø80	Screw jack: Stainless steel, Foot: Synthetic plastic	🖺 1

Art Nr. Pos 6		Material		
	BV093412000A2   Hexagon nut	Stainless steel, Edelstahl, Acier inoxydable, Acero inoxidable	∄ 100	

Art Nr. Pos 7	Material	
020102160001   Bracket 80	AL	🖺 1 piece, incl. fasteners

Art Nr. Pos 8	Material	
020102140000   Cap 40x80	PA FG	<b>10</b>

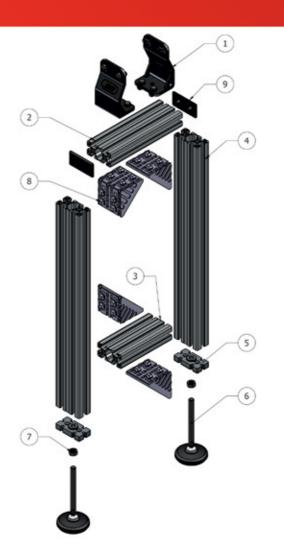




	Dimensions - Abmessungen - Dimensions - Dimensiones		
FW =			
SW Min =	232 mm	9,13" inch	
H Max =	1200 mm	47,25" inch	
Always fasten to the floor, Immer am Boden befestigen			
Siempre sujete al suelo, Toujour attacher à l'étage			

Others on request, Andere auf Anfrage, Autres sur demande, Otros sobre consulta







- 1 L support bracket
  2 Profile 40x80L
  3 Profile 40x80L
  4 Foot plate 40x80L
  5 Hinged feet Ø80
  6 Hexagon nut
  7 Bracket 80
  8 Cap 40x80

Art Nr. Pos 1	Material	
ETS040808020000   L support bracket	PA FG	🗂 1 set of 2 pieces, incl. fasteners

Art Nr. Pos 2 + 3	Material	
020102070008   Profile 40x80L, L= 6070 mm	AL	₫1

Art Nr. Pos 4	Material	
020102150000   Foot plate 40x80L	AL	🗂 1 piece, incl. fasteners
		· · · · · · · · · · · · · · · · · · ·

Art Nr. Pos 5	Material	
040707020003   Hinged feet Ø80	Screw jack: Stainless steel, Foot: Synthetic plastic	₫1

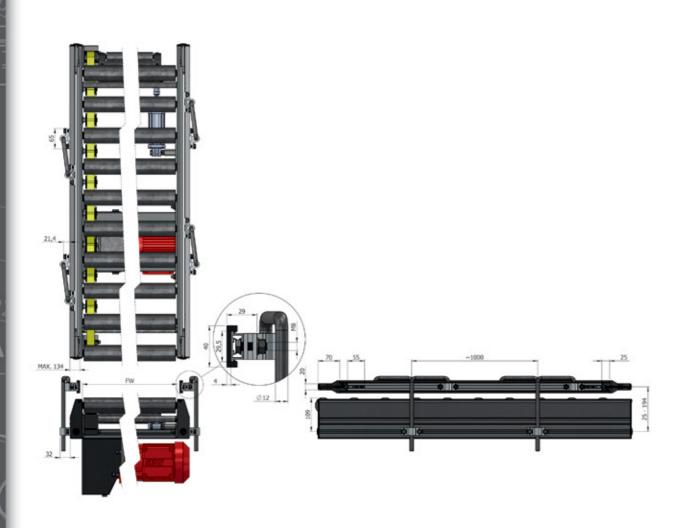
Art Nr. Pos 6	Material	
BV093412000A2   Hexagon nut	Stainless steel, Edelstahl, Acier inoxydable, Acero inoxidable	∄ 100

Art Nr. Pos 7	Material	
020102160001   Bracket 80	AL	🖺 1 piece, incl. fasteners

Art Nr. Pos 8	Material	
020102140000   Cap 40x80	PA FG	≝ 10

Others on request, Andere auf Anfrage, Autres sur demande, Otros sobre consulta





Side guide set; adjustable
Side guide profile
Side guide strip
Guide end

Art Nr. Pos 1 ERA040409010000 Steel galvanized, Stahl verzinkt, 🖺 1 piece, incl fasteners Acier galvanisé, Acero galvanizado

Art Nr. Pos 2 Material ETS040809000000 | 29,5 x 12 AL🛱 1 piece; L=5.6mtr

Art Nr. Pos 3 Material ECP040103000000 | H=40 PE Black 🛱 1 piece; L=3mtr

Art Nr. Pos 4 Material ETS040809050000 | Guide end 40 PA FG 🖺 1 set of pieces, incl. fasteners

Others on request, Andere auf Anfrage, Autres sur demande, Otros sobre consulta

More technical information: See engineering online www.easy-conveyors.com

Others on request, Andere auf Anfrage, Autres sur demande, Otros sobre consulta







#### Quality and Service

When you are looking for a quality conveyor component, look at Easy Conveyors. We put our Leadership on the line for you. Our complete range of products combines stainless steel, carbon steel, aluminum and engineered plastics to achieve reliability, superior performance and a compact of design. We hope you will now take a moment to look through this comprehensive manual. Then, when you are ready to discuss your needs with the nearest Easy Conveyors representative, please consult the back cover of this catalog for further details about our sales network. We are able and eager to assist you setting up a smooth running line. The components you want, when and how you want them. Easy Conveyors is ready and able to satisfy your needs with quick answers and delivery of standard or custom made products. Our customers around the world know that the shortest distance between a problem and its solution is to call us: innovations, research, engineering and production are always under a strict control to improve our service and products.

#### **Document information**

#### User manual

The aim of these user instructions is to provide the user with information on how to handle and use the equipment before, during and after production. It is important that this document is available for the user during the whole of the lifetime of the equipment.

#### **Safety instructions**

#### General.

Incorrect use of the equipment entails mortal danger!

Easy Conveyors BV will not accept any responsibility for accidents that may occur, which may lead to injury to personnel or the equipment, if the equipment is operated in any other way than that which is laid down in the User Manual.

#### Electricians.

Electricians must: Have experience of similar types of installations. Be able to read drawings of circuits and cable lists. Have knowledge of local safety regulations for electric power and automation. Work with electrical equipment may only be carried out by qualified staff.

#### Protectors.

All protectors are screwed onto the equipment

#### Comment

After service work all safeguards must be checked so that they are in place.

#### Use

**ERA 50** roller conveyor is intended for the transport of mixed loads.

ERA 50-drive unit is intended for use together with ERA 50 Roller Conveyor.

All other use or changes in the equipment are forbidden without the consent of the supplier.

#### Safety

Risk of crushing between the rollers and driving belt. Add gearing protection if the conveyor is used as a workplace. The conveyor must not be cleaned when it is in operation.

#### Installation

#### **ERA 50 Roller Conveyor**

It the conveyor is part of a combination with several conveyors or other types of machines, the emergency stop function and other locking devices necessary for safety in connection with adjoining machines must be assessed in an overall risk analysis. The aim of its positioning and function must be to stop the whole machine combination in the event of risk of personal injury.

#### IMPORTANT!

If the conveyor is delivered in parts the driving belt must be assembled with supply voltage (1.5% see instructions), for satisfactory performance. If the supports are not assembled on the conveyor on delivery, see specifications for supports positioning. When the supports are being installed the conveyor must be unloaded and secured vertically. Check that the conveyor framework does not warp. Tighten the lock screws. The conveyor's horizontal position is made at the attachment bracket. The conveyor must be mounted with an expander or similar (depending on the type of floor). ERA 50 Drive Unit is fixed in A ERA 50 Roller Conveyor on delivery. Lifting aids (slings and truck, travelling crane or similar) are to be used when necessary. Hoist slings round the framework are suitable lifting positions.

Electrical installation shall be carried out by qualified personnel.

#### Starting Up

ERA 50-driven roller conveyor should be run for a time at start-up and after service to check that the belt travels straight while it's operating. When necessary adjust the driving belt according to instructions in the section on maintenance and care.

#### Maintenance and care

Risk of serious personal injury! Turn off and lock working switch/main power switch during service/maintenance

The operational safety and length of life of the conveyor depends on how it is cared for.

The conveyor must not be cleaned while it's in operation. Washing or flushing directly towards the motors, bearings/packing rings should be avoided.

### Daily care:

- · Cleaning and cleansing of machine and accessories.
- · Check-up of conveyor, possible damage.
- In the event of defects inform the responsible person.

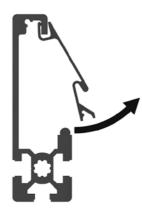


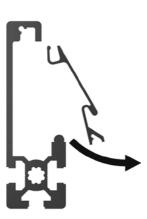




#### Change of conveyor roller







- 1 Dismantle the cover lid.
- 2 Press in the axle
- 3 Lift up/pull out the roller.
- 4 Assembly is carried out in the reverse order.

## **Exchange of driving belt**

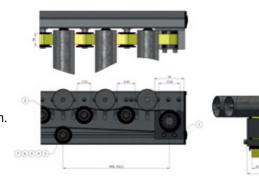
- Return unit
- 2 Pressure wheel
- 3 Return wheel

Switch off and lock working switch/main power switch. Dismantle the cover lid.

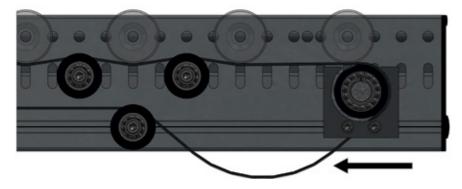
Dismantle drive unit's protector.

Dismantle conveyor rollers.

Dismantle pressure wheel.



The driving belt is pre-tensioned (0,3%) which means that the turning wheel moves on when the attachment screws are unscrewed.



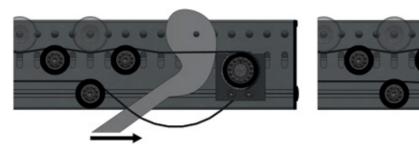
Loosen attachment screws.

N.B. Let the screws remain where they are. Change the driving belt.

#### IMPORTANT!

Pre-tension the driving belt at least 0.3% (max 0.8%).

Check the pre-tension by measuring 1000mm and mark this on the driving belt (slack driving belt). Stretch the driving belt until min 1003mm (max 1008mm)has been reached between the markings.



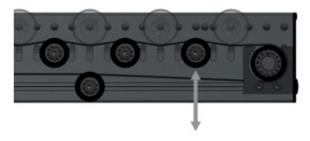
Assembly is carried out in the reverse.

## Reassemble protector after service/repairs.

Assembly tools are available from Easy Conveyors BV.

#### **Exchange of turning wheel**

The belt is loosened according to the instructions for exchange of driving belt. Unscrew the turning wheel's attachment screws. Exchange turning wheel. Assembly is carried out in the reverse order. The driving belt is pre-tensioned according to the instructions for exchange.



## Exchange of pressure/return wheel

- Switch off and lock working switch/main power switch.
- Dismantle the covering lid on the driving side..
- Dismantle the wheel that is to be exchanged. Change wheel. Assembly is carried out in the reverse order.

IMPORTANT! The conveyor's propulsion power is adjusted with the pressure wheel. Always try to obtain the lowest possible propulsion power, The pressure wheel must not be used to pre-tension the driving belt.